

Creation of geographic information systems for environmental management and protection

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Abstract

Oil production is a complex process having multiple impacts on the environment. A number of issues related to evaluation and management of such impacts may be tackled using modern information technologies such as creation of dedicated geographic information systems for environmental management and protection. Applicability of such systems depends on requirements to the level of incoming data generalization. The article discusses the approaches to creation of ecological and geographic information systems of regional and local generalization level applied in Tatneft OAO.

Keywords

Databases, Ecology, Generalization level, Geographic information system (GIS), Mapping, Oil production company